

Restriction
Endonuclease



MhI I

Recognition
Sequence:

GDGCH↓C
C↑HCGDG

S

E049

500 units
5,000 u/ml

Lot:

Exp:

Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	25-50	75-100	100	10-25	100

37°C

80°C

W

λ

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Micrococcus halobius* SD.

Supplied in:

10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA,
7 mM 2-mercaptoethanol, 50% glycerol.

Reaction Conditions:

1x SE-Buffer W. Incubate at 37° C.

1X SE-Buffer W (pH 8.5 @ 25° C):

10 mM Tris-HCl 100 mM NaCl

10 mM MgCl₂ 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 80°C for 20 minutes.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of lambda DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 5-fold overdigestion with MhI I, > 90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 10 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

High enzyme concentration results in star activity.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 5 units of restriction endonuclease for 3 hours.

Enzyme Properties:

When using a buffer other than the optimal (Supplied) SE-Buffer, it may be necessary to add more enzymes to achieve complete digestion.

Reagents Supplied with Enzyme:

10X SE Buffer W.